



ENTERED

PCT10

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/089,001

DATE: 05/19/2003 P.6  
TIME: 17:15:00

Input Set : A:\13134PCTUS Sequence Listing.txt

Output Set: N:\CRF4\05192003\J089001.raw

```

5 <110> APPLICANT: Bayliffe, Andrew
6   Docter, Eelco
7   Kelly, Stephen James
8   Robertson, Nancy Hastings
10 <120> TITLE OF INVENTION: Assay
13 <130> FILE REFERENCE: 13134PCTUS
15 <140> CURRENT APPLICATION NUMBER: US 10/089,001
16 <141> CURRENT FILING DATE: 2002-03-22
18 <150> PRIOR APPLICATION NUMBER: PCT/GB00/03597
19 <151> PRIOR FILING DATE: 2002-09-19
21 <150> PRIOR APPLICATION NUMBER: GB 9922527.8
22 <151> PRIOR FILING DATE: 1999-09-24
25 <160> NUMBER OF SEQ ID NOS: 108
27 <170> SOFTWARE: FastSEQ for Windows Version 4.0
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 36
31 <212> TYPE: DNA
32 <213> ORGANISM: Artificial Sequence
34 <220> FEATURE:
35 <223> OTHER INFORMATION: Primer
W--> 37 <221> NAME/KEY: misc_feature
38 <222> LOCATION: (1)...(26)
39 <223> OTHER INFORMATION: n= A, C, G, or T, wherein 0-20 n may be absent
W--> 41 <400> 1
W--> 42 nnnnnnnnnnnn nnnnnnnnnnnn nnnnnntgtt aaagac 36
44 <210> SEQ ID NO: 2
45 <211> LENGTH: 66
46 <212> TYPE: DNA
47 <213> ORGANISM: Artificial Sequence
49 <220> FEATURE:
50 <223> OTHER INFORMATION: Primer
W--> 52 <221> NAME/KEY: misc_feature
53 <222> LOCATION: (1)...(56)
54 <223> OTHER INFORMATION: n = A, C, G, or T, wherein 0-40 n may be absent
W--> 56 <400> 2
W--> 57 nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnttaa 60
58 aaaagc 66
60 <210> SEQ ID NO: 3
61 <211> LENGTH: 66
62 <212> TYPE: DNA
63 <213> ORGANISM: Artificial Sequence
65 <220> FEATURE:
66 <223> OTHER INFORMATION: Primer

```

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W--> 68 <221> NAME/KEY: misc_feature
      69 <222> LOCATION: (1)...(56)
      70 <223> OTHER INFORMATION: n = A, C, G, or T, wherein 0-40 n may be absent
W--> 72 <400> 3
W--> 73 nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnaaaaa 60
      74 aaaatc 66
      76 <210> SEQ ID NO: 4
      77 <211> LENGTH: 26
      78 <212> TYPE: DNA
      79 <213> ORGANISM: Artificial Sequence
      81 <220> FEATURE:
      82 <223> OTHER INFORMATION: Primer
      84 <400> SEQUENCE: 4
      85 taattcccca aatccctggt aaagac 26
      87 <210> SEQ ID NO: 5
      88 <211> LENGTH: 88
      89 <212> TYPE: DNA
      90 <213> ORGANISM: Artificial Sequence
      92 <220> FEATURE:
      93 <223> OTHER INFORMATION: Primer
W--> 95 <221> NAME/KEY: misc_feature
      96 <222> LOCATION: (1)...(60)
      97 <223> OTHER INFORMATION: n = A, C, G, or T, wherein 0-55 n may be absent
W--> 99 <400> 5
W--> 100 nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 60
      101 taattcccca aatccctggt aaaaaaagc 88
      103 <210> SEQ ID NO: 6
      104 <211> LENGTH: 90
      105 <212> TYPE: DNA
      106 <213> ORGANISM: Artificial Sequence
      108 <220> FEATURE:
      109 <223> OTHER INFORMATION: Primer
W--> 111 <221> NAME/KEY: misc_feature
      112 <222> LOCATION: (1)...(60)
      113 <223> OTHER INFORMATION: n = A, C, G, or T, wherein 0-55 n may be absent
W--> 115 <400> 6
W--> 116 nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 60
      117 taattcccca aatccctggt aaaaaaatc 90
      119 <210> SEQ ID NO: 7
      120 <211> LENGTH: 53
      121 <212> TYPE: DNA
      122 <213> ORGANISM: Artificial Sequence
      124 <220> FEATURE:
      125 <223> OTHER INFORMATION: Primer
      127 <400> SEQUENCE: 7
      128 gttaatcatt cagctactac gcacctaat ccccaaatacc ctgttaaaaa agc 53
      130 <210> SEQ ID NO: 8
      131 <211> LENGTH: 89
      132 <212> TYPE: DNA

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133 <213> ORGANISM: Artificial Sequence
135 <220> FEATURE:
136 <223> OTHER INFORMATION: Primer
138 <400> SEQUENCE: 8
139 gactgtacga tactcatttta tatgaagtca gctacttacc tatagaacgc ttgctagttt 60
140 aattccccaa atccctgtta aaaaaaatc 89
142 <210> SEQ ID NO: 9
143 <211> LENGTH: 35
144 <212> TYPE: DNA
145 <213> ORGANISM: Artificial Sequence
147 <220> FEATURE:
148 <223> OTHER INFORMATION: Primer
150 <400> SEQUENCE: 9
151 gtacataaaa caagcatcta ttgaaaatat ctgac 35
153 <210> SEQ ID NO: 10
154 <211> LENGTH: 36
155 <212> TYPE: DNA
156 <213> ORGANISM: Artificial Sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: Primer
W--> 161 <221> NAME/KEY: misc_feature
162 <222> LOCATION: (1)...(26)
163 <223> OTHER INFORMATION: n = A, C, G, or T, wherein 0-20 n may be absent
W--> 165 <400> 10
W--> 166 nnnnnnnnnn nnnnnnnnnn nnnnnngcaa cagtca 36
168 <210> SEQ ID NO: 11
169 <211> LENGTH: 36
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial Sequence
173 <220> FEATURE:
174 <223> OTHER INFORMATION: Primer
W--> 176 <221> NAME/KEY: misc_feature
177 <222> LOCATION: (1)...(26)
178 <223> OTHER INFORMATION: n = A, C, G, or T, wherein 0-20 n may be absent
W--> 180 <400> 11
W--> 181 nnnnnnnnnn nnnnnnnnnn nnnnnnttgg taatta 36
183 <210> SEQ ID NO: 12
184 <211> LENGTH: 36
185 <212> TYPE: DNA
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Primer
W--> 191 <221> NAME/KEY: misc_feature
192 <222> LOCATION: (1)...(26)
193 <223> OTHER INFORMATION: n = A, C, G, or T, wherein 0-20 n may be absent
W--> 195 <400> 12
W--> 196 nnnnnnnnnn nnnnnnnnnn nnnnnnatag ttctct 36
198 <210> SEQ ID NO: 13
199 <211> LENGTH: 36

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Input Set : A:\13134PCTUS Sequence Listing.txt

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200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Primer
W--> 206 <221> NAME/KEY: misc_feature
207 <222> LOCATION: (1)...(26)
208 <223> OTHER INFORMATION: n = A, C, G, or T, wherein 0-20 n may be absent
W--> 210 <400> 13
W--> 211 nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnggga tccatc 36
213 <210> SEQ ID NO: 14
214 <211> LENGTH: 36
215 <212> TYPE: DNA
216 <213> ORGANISM: Artificial Sequence
218 <220> FEATURE:
219 <223> OTHER INFORMATION: Primer
W--> 221 <221> NAME/KEY: misc_feature
222 <222> LOCATION: (1)...(26)
223 <223> OTHER INFORMATION: n = A, C, G, or T, wherein 0-20 n may be absent
W--> 225 <400> 14
W--> 226 nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnaaac accatt 36
228 <210> SEQ ID NO: 15
229 <211> LENGTH: 36
230 <212> TYPE: DNA
231 <213> ORGANISM: Artificial Sequence
233 <220> FEATURE:
234 <223> OTHER INFORMATION: Primer
W--> 236 <221> NAME/KEY: misc_feature
237 <222> LOCATION: (1)...(26)
238 <223> OTHER INFORMATION: n = A, C, G, or T, wherein 0-20 n may be absent
W--> 240 <400> 15
W--> 241 nnnnnnnnnnnn nnnnnnnnnnnn nnnnnngtct tacgca 36
243 <210> SEQ ID NO: 16
244 <211> LENGTH: 30
245 <212> TYPE: DNA
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: Primer
251 <400> SEQUENCE: 16
252 tcttgggatt caataacttt gcaacagtca 30
254 <210> SEQ ID NO: 17
255 <211> LENGTH: 27
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <223> OTHER INFORMATION: Primer
262 <400> SEQUENCE: 17
263 tctcgaattt tctatttttg gtaatta 27
265 <210> SEQ ID NO: 18
266 <211> LENGTH: 30

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Input Set : A:\13134PCTUS Sequence Listing.txt

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267 <212> TYPE: DNA
268 <213> ORGANISM: Artificial Sequence
270 <220> FEATURE:
271 <223> OTHER INFORMATION: Primer
273 <400> SEQUENCE: 18
274 agtttgcaga gaaagacaat atagttctct          30
276 <210> SEQ ID NO: 19
277 <211> LENGTH: 30
278 <212> TYPE: DNA
279 <213> ORGANISM: Artificial Sequence
281 <220> FEATURE:
282 <223> OTHER INFORMATION: Primer
284 <400> SEQUENCE: 19
285 tgatcactcc actgttcata gggatccatc          30
287 <210> SEQ ID NO: 20
288 <211> LENGTH: 30
289 <212> TYPE: DNA
290 <213> ORGANISM: Artificial Sequence
292 <220> FEATURE:
293 <223> OTHER INFORMATION: Primer
295 <400> SEQUENCE: 20
296 gtatctatat tcatcatagg aaacaccatt          30
298 <210> SEQ ID NO: 21
299 <211> LENGTH: 29
300 <212> TYPE: DNA
301 <213> ORGANISM: Artificial Sequence
303 <220> FEATURE:
304 <223> OTHER INFORMATION: Primer
306 <400> SEQUENCE: 21
307 gaacatttcc tttcagggtg tcttacgca          29
309 <210> SEQ ID NO: 22
310 <211> LENGTH: 36
311 <212> TYPE: DNA
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <223> OTHER INFORMATION: Primer
W--> 317 <221> NAME/KEY: misc_feature
318 <222> LOCATION: (1)...(26)
319 <223> OTHER INFORMATION: n = A, C, G, or T, wherein 0-20 n may be absent
W--> 321 <400> 22
W--> 322 nnnnnnnnnn nnnnnnnnnn nnnnnnaaac accaca          36
324 <210> SEQ ID NO: 23
325 <211> LENGTH: 36
326 <212> TYPE: DNA
327 <213> ORGANISM: Artificial Sequence
329 <220> FEATURE:
330 <223> OTHER INFORMATION: Primer
W--> 332 <221> NAME/KEY: misc_feature
333 <222> LOCATION: (1)...(6)

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RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 05/19/2003  
PATENT APPLICATION:    US/10/089,001      TIME: 17:15:01

Input Set : A:\13134PCTUS Sequence Listing.txt  
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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23  
Seq#:1; N Pos. 24,25,26  
Seq#:2; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23  
Seq#:2; N Pos. 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43  
Seq#:2; N Pos. 44,45,46,47,48,49,50,51,52,53,54,55,56  
Seq#:3; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23  
Seq#:3; N Pos. 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43  
Seq#:3; N Pos. 44,45,46,47,48,49,50,51,52,53,54,55,56  
Seq#:5; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23  
Seq#:5; N Pos. 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43  
Seq#:5; N Pos. 44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60  
Seq#:6; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23  
Seq#:6; N Pos. 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43  
Seq#:6; N Pos. 44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60  
Seq#:10; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23  
Seq#:10; N Pos. 24,25,26  
Seq#:11; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23  
Seq#:11; N Pos. 24,25,26  
Seq#:12; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23  
Seq#:12; N Pos. 24,25,26  
Seq#:13; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23  
Seq#:13; N Pos. 24,25,26  
Seq#:14; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23  
Seq#:14; N Pos. 24,25,26  
Seq#:15; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23  
Seq#:15; N Pos. 24,25,26  
Seq#:22; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23  
Seq#:22; N Pos. 24,25,26  
Seq#:23; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23  
Seq#:23; N Pos. 24,25,26  
Seq#:24; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23  
Seq#:24; N Pos. 24,25,26  
Seq#:25; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23  
Seq#:25; N Pos. 24,25,26  
Seq#:26; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23  
Seq#:26; N Pos. 24,25,26  
Seq#:27; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23  
Seq#:27; N Pos. 24,25,26  
Seq#:28; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23  
Seq#:28; N Pos. 24,25,26  
Seq#:35; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23  
Seq#:35; N Pos. 24,25,26  
Seq#:36; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23  
Seq#:36; N Pos. 24,25,26

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Seq#:37; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23  
Seq#:37; N Pos. 24,25,26  
Seq#:38; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23  
Seq#:38; N Pos. 24,25,26  
Seq#:39; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23  
Seq#:39; N Pos. 24,25,26  
Seq#:40; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23

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Input Set : A:\13134PCTUS Sequence Listing.txt

Output Set: N:\CRF4\05192003\J089001.raw

L:37 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:41 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1  
L:42 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:52 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:56 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2  
L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:68 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:72 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
L:73 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:95 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:99 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5  
L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:111 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:115 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6  
L:116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:161 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:165 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:10  
L:166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:176 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:180 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11  
L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:191 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:195 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:12  
L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:206 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:210 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:13  
L:211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:221 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:225 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:14  
L:226 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
L:236 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:240 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15  
L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:317 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:321 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:22  
L:322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0  
L:332 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:336 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:23  
L:337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0  
L:347 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:351 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24  
L:352 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0  
L:362 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:366 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:25  
L:367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0  
L:377 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:381 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:26  
L:382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0

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Input Set : A:\13134PCTUS Sequence Listing.txt

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L:392 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:396 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:27  
L:397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0  
L:407 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:411 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:28  
L:412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0  
L:488 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:492 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:35  
L:493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0  
L:503 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:507 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:36  
L:508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0  
L:518 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:522 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:37  
L:523 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0  
L:533 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:537 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:38  
L:538 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0  
L:548 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:552 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:39  
L:553 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0  
L:563 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:567 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:40  
L:568 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0  
L:578 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:582 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:41  
L:583 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0  
L:593 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:597 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:42  
L:598 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0  
L:696 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:700 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:51  
L:701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0  
L:711 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:715 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:52  
L:716 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:0  
L:726 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:730 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:53  
L:731 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:0  
L:741 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:745 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:54  
L:746 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:0  
L:756 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:760 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:55  
L:761 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0  
L:1101 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:1105 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:86  
L:1106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86 after pos.:0  
L:1116 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!

## VERIFICATION SUMMARY

DATE: 05/19/2003

PATENT APPLICATION: US/10/089,001

TIME: 17:15:01

Input Set : A:\13134PCTUS Sequence Listing.txt

Output Set: N:\CRF4\05192003\J089001.raw

L:1120 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:87  
L:1121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:87 after pos.:0  
M:341 Repeated in SeqNo=87  
L:1132 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:1136 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:88  
L:1137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88 after pos.:0  
M:341 Repeated in SeqNo=88  
L:1148 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:1152 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:89  
L:1153 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89 after pos.:0  
L:1163 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:1167 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:90  
L:1168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:0  
L:1178 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:1182 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:91  
L:1183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:0  
L:1193 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:1197 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:92  
L:1198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92 after pos.:0  
L:1208 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:1212 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:93  
L:1213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:0  
L:1223 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:1227 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:94  
L:1228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:0  
L:1238 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:1242 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:95  
L:1243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:0  
L:1253 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:1257 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:96  
L:1258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96 after pos.:0  
L:1268 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:1272 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:97  
L:1273 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:97 after pos.:0  
L:1283 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:1287 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:98  
L:1288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98 after pos.:0  
L:1298 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:1302 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:99  
L:1303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:0  
L:1313 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:1317 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:100  
L:1318 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100 after pos.:0  
L:1328 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:1332 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:101  
L:1333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:0  
L:1343 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:1347 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:102  
L:1348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102 after pos.:0

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/089,001

DATE: 05/19/2003

TIME: 17:15:01

Input Set : A:\13134PCTUS Sequence Listing.txt

Output Set: N:\CRF4\05192003\J089001.raw

L:1358 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:1362 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:103  
L:1373 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:1377 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:104.